IN THE CLAIMS:

Please cancel Claims 49 to 51 without prejudice or disclaimer of subject matter, and amend Claims 1, 2, 26, 28, 43 and 52 as shown below. The claims, as pending in the subject application, now read as follows:

1. (Currently amended) A liquid supply system which is provided with a liquid supply path to a liquid holding portion holding liquid at the downstream end in the supply direction of liquid and a filter in the liquid supply path and in which the liquid can be supplied from the upstream side of the filter to the downstream side thereof in the vertical direction in the direction of gravity, the system comprising:

a member for dividing a portion <u>downstream</u> of the filter in contact with the <u>downstream side</u> into a gas holding area.and a liquid holding area.[[;]]

wherein the gas held in said gas holding area is in communication with gas present between the downstream side of the filter and the liquid holding portion in said downstream end.

- 2. (Currently amended) A liquid supply system according to claim 1, wherein the gas liquid held in said gas holding area communicates with the liquid in said liquid holding portion thereby enabling reversible movement of the liquid at the upstream side of said filter and the liquid at the downstream side of said filter.
- 3. (Original) A liquid supply system according to claim 1, wherein the gas present between the downstream side of said filter and the upstream side of the liquid

holding portion at said downstream end is so positioned as to inhibit movement of a bubble from said liquid holding portion to said filter.

4. (Original) A liquid supply system according to claim 1, further comprising:

a liquid connection structure, for holding, at the downstream side of said filter in said liquid supply path, the liquid present at the downstream side of said filter across the gas of said gas holding area by the surface tension of said liquid and connecting said liquid with the liquid at the upstream side of said filter.

- 5. (Original) A liquid supply system according to claim 4, wherein said liquid connecting structure includes a groove-shaped structure portion which is provided along the vertical direction and of which the upper end is almost in contact with the face of said filter at the downstream side thereof.
- 6. (Original) A liquid supply system according to claim 5, wherein the gap between said groove-shaped structure portion and said filter is within a range of 0 S t S 1.0 mm.
- 7. (Original) A liquid supply system according to claim 5, wherein said groove-shaped structure portion has a cross section of recessed shape.

- 8. (Original) A liquid supply system according to claim 5, wherein said groove-shaped structure portion has a cross section of wedge shape.
- 9. (Original) A liquid supply system according to claim 5, wherein said groove-shaped structure portion has an arc-shaped liquid holding surface.
- 10. (Original) A liquid supply system according to claim 5, wherein said groove-shaped structure portion has a member in which plural hollowing portions for holding liquid are formed, and said member is provided at the downstream side of said filter.
- 11. (Original) A liquid supply system according to claim 5, wherein said groove-shaped structure portion satisfies a relation L/S \geq 1000 wherein L is the circumferential length of an area in contact with the liquid in said groove-shaped structure portion and S is the cross section of an area in contact with the liquid in said groove-shaped structure portion.
- 12. (Original) A liquid supply system according to claim 5, wherein surrounding portion of said groove-shaped structure portion is cut off or rounded.
- 13. (Original) A liquid supply system according to claim 5, wherein said groove-shaped structure portion is integrally constructed with a member constituting said liquid supply path at the downstream side of said filter.

- 14. (Original) A liquid supply system according to claim 5, wherein, at the downstream side of said filter, said liquid supply path includes a cover member constituting a lateral face of said liquid supply path and a main body member constituting another face of said liquid supply path and jointed to said cover member, and said groove-shaped structure portion is provided at least on said cover member.
- 15. (Original) A liquid supply system according to claim 14; wherein said cover member and said main body member are jointed with adhesive, and the groove-shaped structure portion provided on said cover member is provided as a protruding portion with a slit, protruding from the adhered face of said cover member with said main body member and holding the liquid by the surface tension thereof.
- 16. (Original) A liquid supply system according to claim 15, wherein said protruding portion is provided with a groove for receiving said adhesive between the adhered face of said cover member with said main body member and said slit.
- 17. (Original) A liquid supply system according to any of claims 1 to 16, wherein said liquid supply path has a first liquid chamber at the upstream side of said filter and a second liquid chamber including the gas of said gas holding area at the downstream side of said filter.

- 18. (Original) A liquid supply system according to claim 17, wherein said first liquid chamber includes pressure adjusting means for absorbing pressure variation in said first liquid chamber.
- 19. (Original) A liquid supply system according to claim 17, further comprising, at the upstream side of said first liquid chamber in said liquid supply path, a valve structure to be opened at the normal liquid supply state and to be closed at the liquid filling into said second liquid chamber by suction from said downstream end.
- 20. (Original) A liquid supply system according to claim 17, wherein said first liquid chamber includes an air communication aperture which can be opened and closed and is to be closed at the liquid filling into said second liquid chamber by suction from said downstream end.
- 21. (Original) A liquid supply system according to claim 17, further comprising, at the downstream side of said filter in said liquid supply path, a third liquid chamber for holding the liquid in such a manner that the liquid is in contact with a part of the surface of said filter at the downstream side thereof.
- 22. (Original) A liquid supply system according to claim 21, wherein said third liquid chamber includes a structure for holding the liquid by the surface tension thereof in contact with the surface of said filter at the downstream side thereof.

23. (Original) A liquid supply system according to claim 22, wherein the structure for causing the liquid of said third liquid chamber to contact the surface of said filter at the downstream side thereof includes at least a rib so provided that the front end thereof is in contact with the surface of said filter at the downstream side thereof.

24. (Original) A liquid supply system according to claim 21, wherein the amount of the liquid that can be held in said third liquid chamber is larger than the amount of change in the volume of the gas in said gas holding area anticipated in the environment of use.

25. (Original) A liquid supply system according to claim 21, wherein said third liquid chamber is so provided as to surround an aperture connecting said filter and said second liquid chamber.

26. (Currently amended) An ink jet recording head provided with a first liquid chamber and a second liquid chamber separated by a filter and respectively containing liquid therein, and a liquid discharge portion connected directly with said second liquid chamber and adapted to discharge the liquid supplied from said second liquid chamber, in which the liquid can be supplied from said first liquid chamber to said second liquid chamber through said filter, comprising:

a member for dividing a portion <u>downstream</u> of the filter in contact with said second liquid chamber into a gas holding area and a liquid holding area.[[;]]

wherein the gas held in said gas holding area is in communication with the gas present in said second liquid chamber.

- 27. (Original) An ink jet recording head according to claim 26, wherein the liquid held in said liquid holding area communicates with the liquid in said liquid chamber thereby enabling reversible movement of the liquid in said first liquid chamber and the liquid in said second liquid chamber.
- 28. (Currently amended) An ink jet recording head according to claim 26, wherein the gas present in said gas holding area second liquid chamber is so positioned as to inhibit movement of a bubble from said liquid discharge portion to said filter.
- 29. (Original) An ink jet recording head according to claim 26, further comprising a liquid connection structure for holding the liquid present in said second liquid chamber across the gas of said gas holding area by the surface tension of said liquid and connecting said liquid, with the liquid in said first liquid chamber through said filter.
- 30. (Original) An ink jet recording head according to claim 29, wherein said liquid connecting structure includes a groove-shaped structure portion which is provided along the liquid supply direction from said first liquid chamber to said second liquid chamber and of which the upper end is almost in contact with the surface of said filter at the downstream side thereof.

- 31. (Original) An ink jet recording head according to claim 30, wherein the gap between said groove-shaped structure portion and said filter is within a range of $0 \le t \le 1.0$ mm.
- 32. (Original) An ink jet recording head according to claim 30, wherein said groove-shaped structure portion has a cross section of recessed shape.
- 33. (Original) An ink jet recording head according to claim 30, wherein said groove-shaped structure portion has a cross section of wedge shape.
- 34. (Original) An ink jet recording head according to claim 30, wherein said groove-shaped structure portion has an arc-shaped liquid holding surface.
- 35. (Original) An ink jet recording head according to claim 30, wherein said groove-shaped structure portion has a member in which plural hollowing portions for holding liquid are formed, and said member is provided at the downstream side of said filter.
- 36. (Original) An ink jet recording head according to claim 30, wherein said groove-shaped structure portion satisfies a relation $L/S \ge 1000$ wherein L is the circumferential length of an area in contact with the liquid in said groove-shaped structure portion and S is the cross section of an area in contact with the liquid in said groove-shaped structure portion.

- 37. (Original) An ink jet recording head according to claim 30, wherein surrounding portion of said groove-shaped structure portion is cut off or rounded.
- 38. (Original) An ink jet recording head according to claim 30, wherein said groove-shaped structure portion is integrally constructed with a member constituting said second liquid chamber.
- 39. (Original) An ink jet recording head according to claim 30, wherein said second liquid chamber includes a cover member constituting a lateral face of said second liquid chamber and a main body member constituting another face of said second liquid chamber and jointed to said cover member, and said groove-shaped structure portion is provided at least on said cover member.
- 40. (Original) An ink jet recording head according to claim 39, wherein said cover member and said main body member are jointed with adhesive, and the groove-shaped structure portion provided on said cover member is provided as a protruding portion with a slit, protruding from the adhered face of said cover member with said main body member and holding the liquid by the surface tension thereof.
- 41. (Original) An ink jet recording head according to claim 40, wherein said protruding portion is provided with a groove for receiving said adhesive between the adhered face of said cover member with said main body member and said slit.

- 42. (Original) An ink jet recording head according to claim 26, wherein said first liquid chamber includes pressure adjusting means for absorbing pressure variation in said first liquid chamber.
- 43. (Currently amended) An ink jet recording head according to claim 26, further comprising a connecting portion to which <u>a</u> [[the]] liquid supply means to said first liquid chamber is detachably connected.
- 44. (Original) An ink jet recording head according to claim 26, further comprising, between said first liquid chamber and said second liquid chamber, a third liquid chamber for holding the liquid in such a manner that the liquid is in contact with a part of the surface of said filter at the side of said second liquid chamber.
- 45. (Original) An ink jet recording head according to claim 44, wherein said third liquid chamber includes a structure for holding the liquid by the surface tension thereof in contact with the surface of said filter.
- 46. (Original) An ink jet recording head according to claim 45, wherein the structure for causing the liquid of said third liquid chamber to contact the surface of said filter includes at least a rib so provided that the front end thereof is in contact with the surface of said filter at the side of said second liquid chamber.

47. (Original) An ink jet recording head~according to claim 44, wherein the amount of the liquid that can be held in said third liquid chamber is larger than the amount of change in the volume of the gas in said gas holding area anticipated in the environment of use.

48. (Original) An ink jet recording head according to claim 44, wherein said third liquid chamber is so provided as to surround an aperture connecting said filter and said second liquid chamber.

49. to 51. (Canceled)

system in which first and second liquid chambers respectively holding liquid are separated by a filter while liquid is held at the downstream side of said second liquid chamber in the liquid supply direction from said first liquid chamber to said second liquid chamber, a member is provided for separating a contact portion of the downstream side of said filter into a gas holding area and a liquid holding area in a state capable of liquid supply from the upstream side of said filter to the downstream side thereof in the vertical direction of gravity, and the gas held in said gas holding area is in communication with the gas present between the downstream side of said filter and the upstream side of the second liquid chamber liquid holding area at said downstream end, the method comprising:

a step of closing the first liquid chamber from the exterior a step of executing suction from the downstream side of said second liquid chamber in a state where

said first liquid chamber is closed, thereby reducing the pressure of said first and second liquid chambers; and

a step, after the pressure reduction of said first and second liquid chambers, of opening said first liquid chamber to the exterior.